Human Immunology

Official Journal of the American Society
for Histocompatibility and Immunogenetics

Volume 37, 1993

Elsevier

Human Immunology

Aims and Scope

Human Immunology offers an exchange of information and ideas centering on the immunological system of humans. Pertinent information about the analogous systems of other vertebrates, including fish, birds, and mammals, may also be appropriate. The genes of the major histocompatibility complex and of T, B, and accessory cells and their products as regulatory molecules, disease markers, receptors, or targets are relevant topics. Subdisciplines such as neuroimmunology, immunopharmacology, and developmental and reproductive immunology are also considered insofar as they provide new insights. Limited space is available for reporting technological advances. Rapid publication of newsworthy items is provided by brief reports. Topics of general concern form the basis for editorials and seminar series.

Editor-in-Chief
D. Bernard Amos
Department of Immunology
Duke University Medical Center
Durham, North Carolina

American Editor
Jeffrey R. Dawson
Department of Immunology
Duke University Medical Center
Durham, North Carolina

European Editor
Jon J. van Rood
Afdeling Immunohaematologie
Academisch Ziekenhuis
Leiden, The Netherlands

Editorial Board

J. R. Batchelor, *London, England*
H. Betuel, *Lyon, France*
J. G. Bodmer, *London, England*
C. Brautbar, *Jerusalem, Israel*
F. M. Brodsky, *San Francisco, California*
J. D. Capra, *Dallas, Texas*
C. B. Carpenter, *Boston, Massachusetts*
D. J. Charron, *Paris, France*
F. H. J. Claas, *Leiden, The Netherlands*
P. Cresswell, *New Haven, Connecticut*
M. Crumpton, *London, England*
S. Curtoni, *Torino, Italy*
R. Dawkins, *Perth, Australia*
L. Degos, *Paris, France*
R. J. Duquesnoy, *Pittsburgh, Pennsylvania*
D. D. Eckels, *Milwaukee, Wisconsin*
C. P. Engelfriet, *Amsterdam, The Netherlands*
H. A. Erlich, *Emeryville, California*
G. B. Ferrara, *Genoa, Italy*
T. C. Fuller, *Salt Lake City, Utah*
J. Gorski, *Milwaukee, Wisconsin*
F. C. Grumet, *Stanford, California*
J. A. Hansen, *Seattle, Washington*
G. A. Hitman, *London, England*
C. K. Hurley, *Washington, DC*
W. R. Mayr, *Vienna, Austria*
A. McMichael, *Oxford, England*
T. Mohanakumar, *St. Louis, Missouri*
E. Moller, *Stockholm, Sweden*
H. T. Orr, *Minneapolis, Minnesota*
P. Parham, *Stanford, California*
P. A. Peterson, *La Jolla, California*
H. L. Ploegh, *Cambridge, Massachusetts*
S. Radka, *Tarrytown, New York*
N. Reinsmoen, *Minneapolis, Minnesota*
M. A. Robinson, *Rockville, Maryland*
G. E. Rodey, *Atlanta, Georgia*
P. Rubinstein, *New York, New York*
F. Sanfilippo, *Baltimore, Maryland*
T. Sasazuki, *Tokyo, Japan*
D. J. Schendel, *Munich, Germany*
M. Schlesinger, *Jerusalem, Israel*
B. D. Schwartz, *St. Louis, Missouri*
S. Serjeantson, *Canberra, Australia*
S. Shaw, *Bethesda, Maryland*
P. Stastny, *Dallas, Texas*
A. Svejgaard, *Copenhagen, Denmark*
E. Thorsby, *Oslo, Norway*
R. Tosi, *Rome, Italy*
J. Trowsdale, *London, England*
K. Tsuji, *Isehara, Japan*
J. A. (Falk) Wade, *Toronto, Canada*
L. R. Weitkamp, *Rochester, New York*
E. J. Yunis, *Boston, Massachusetts*

Human Immunology

Volume 37 Contents

Number 1, May 1993

JAMILAH ROUSHDY, SENTOT SANTOSO, RAINER KALB, KARLHEINZ MEIER-EWERT, EKKEHARD D. ALBERT, and GERTRUD MUELLER-ECKHARDT
A Deletion in the Second Exon of an HLA-DRB1 Allele Found in a DR2-Negative Narcolepsy Patient 1

TAKEFUMI NIGUMA, LYNN D. DeVITO, ALAN P. GRAILER, JOHN H. FECHNER, Jr., HANS W. SOLLINGER, and WILLIAM J. BURLINGHAM
Activation of HLA-A2-Specific Memory B Cells in Severe Combined Immunodeficient Mice 7

GILL CHUMBLEY, ASHLEY KING, NICK HOLMES, and YUNG-WAI LOKE
In situ Hybridization and Northern Blot Demonstration of HLA-G mRNA in Human Trophoblast Populations by Locus-Specific Oligonucleotide 17

LUIS F. SANTAMARIA, ROY BHEEKHA, FRANK C. VAN REIJSEN, MARIA T. PEREZ SOLER, MARK SUTER, CARLA A. F. M. BRUIJNZEEL-KOOMEN, and GEERT C. MUDDE
Antigen Focusing by Specific Monomeric Immunoglobulin E Bound to CD23 on Epstein–Barr Virus-Transformed B Cells 23

INDRA-GUSTI MANSUR, GERALD LECA, JOANNE C. PRATT, LAURENT DEGOS, LAURENCE BOUMSELL, and ARMAND BENSUSSAN
Identification of a [illegible] Glycoprotein Restricted to Long-Term Dividing Human L[illegible] 31

PERE SANTAMARIA, [illegible] T. BOYCE-JACINO, STEVE H. MYSTER, J[illegible] ARAS, and STEPHEN S. RICH
HLA Class I Sequ[illegible] 39

ELLEN KLOHE, XIN-[illegible] ROBERT W. KARR
HLA-DRβ Chain [illegible] Located in the Floor of the Peptide-Binding C[illegible] nding Epitopes 51

WILLEM VERDUYN, [illegible] NE ANHOLTS, JOS J. M. DRABBELS[illegible], GUIDO G. PERSIJN, MARIUS J. GIPHART[illegible] ER, for the EUROTRANSPLANT
Biotinylated DRB Sequence-Specific Oligonucleotides: Comparison to Serologic HLA-DR Typing of Organ Donors in Eurotransplant 59

LIBRARY USE ONLY
UNIVERSITY OF HAWAII
10 00129629

Number 2, June 1993

NEIL T. YOUNG and CHRISTOPHER DARKE
Allelic Typing of the HLA-DR4 Group by Polymerase Chain Reaction–Single-Strand Conformation Polymorphism Analysis 69

BLAZENKA GRAHOVIC, CHRISTIAN SCHÖNBACH, UWE BRÄNDLE, WERNER E. MAYER, MLADEN GOLUBIC, FELIPE FIGUERA, JOHN TROWSDALE, and JAN KLEIN
Conservative Evolution of the *Mhc-DP* Region in Anthropoid Primates 75

Human Immunology is cited in *Biological Abstracts, Chemical Abstracts, Current Contents (Life Sciences), Excerpta Medica, Index Medicus,* and *CABS/Current Awareness in Biological Sciences.*

FRANCESCO CUCCA, FRANCESCO MUNTONI, ROSANNA LAMPIS, FULVIA FRAU, LUISA ARGIOLAS, MARIO SILVETTI, EFISIO ANGIUS, ANTONIO CAO, STEFANO DE VIRGILIIS, and MAURO CONGIA
Combinations of Specific DRB1, DQA1, DQB1 Haplotypes Are Associated with Insulin-Dependent Diabetes Mellitus in Sardinia 85

LING LIN, KATSUSHI TOKUNAGA, ATSUKO OGAWA, YOSHIHIDE ISHIKAWA, KOUICHI KASHIWASE, TATSUYA AKAZA, SHOJI KUWATA, KENJI TADOKORO, and TAKEO JUJI
Genotyping and Association Analysis of HLA-B61 in Japanese 95

VINEETA BAL, JONATHAN LAMB, and ROBERT LECHLER
Analysis of Accessory Signaling in Human T-Cell Clones 101

AFTAB A. ANSARI, YI-CHONG WANG, KIRK KANTER, FRANCOIS VILLINGER, ANN MAYNE, KENNETH W. SELL, and AHVIE HERSKOWITZ
Host T-Cell Primary Allosensitization to MHC Class-I- and Class-II-Expressing Human Cardiac Myocytes Requires the Presence of a Second Signal 108

2nd International Workshop on Soluble HLA Antigens 119

Number 3, July 1993

DONNA D. KOSTYU, DEBORAH V. DAWSON, SHERMAN ELIAS, and CAROLE OBER
Deficit of HLA Homozygotes in a Caucasian Isolate 135

MARIJKE LAMBERT, MARJA VAN EGGERMOND, and PETER VAN DEN ELSEN
Lymphokine Gene Transcription in $CD4^+$ $CD8^-$ T Cells of a Type III Bare Lymphocyte Syndrome Patient 143

DANIEL M. ALTMANN, KATALIN TAKÁCS, JOHN TROWSDALE, and JAMES I. ELLIOTT
Mouse Mammary Tumor Virus-Mediated T-Cell Receptor Negative Selection in HLA-DRA Transgenic Mice 149

SUSAN S. GLEW, MARGARET DUGGAN-KEEN, ANNA K. GHOSH, ADRIAN IVINSON, PAUL SINNOTT, JUDITH DAVIDSON, PHILIP A. DYER, and PETER L. STERN
Lack of Association of HLA Polymorphisms with Human Papillomavirus-Related Cervical Cancer 157

LYNN D. DeVITO, BETH P. MASON, EWA JANKOWSKA-GAN, KEVIN T. HOGAN, JI-WEI GUO, CHARLES T. LUTZ, HANS W. SOLLINGER, and WILLIAM J. BURLINGHAM
Epitope Fine Specificity of Human Anti-HLA-A2 Antibodies: Identification of Four Epitopes Including a Haptenlike Epitope on HLA-A2 at Lysine 127 165

VIBHUTI P. DAVE, MARK LARCHÉ, SAMANTHA D. RENCHER, BEN F. KOOP, and JULIA L. HURWITZ
Restricted Usage of T-Cell Receptor Vα Sequence and Variable–Joining Pairs After Normal T-Cell Development and Bone Marrow Transplantation 178

M. ANN KELLY, DAVID A. CAVAN, MICHELLE A. PENNY, CATHERINE H. MIJOVIC, DAVID JENKINS, SEAN MORRISSEY, DAVID H. MILLER, ANTHONY H. BARNETT, and DAVID A. FRANCIS
The Influence of HLA-DR and -DQ Alleles on Progression to Multiple Sclerosis Following a Clinically Isolated Syndrome 185

SUSANA G. RODRIGUEZ, ARMEAD H. JOHNSON, and CAROLYN KATOVICH HURLEY
Molecular Characterization of HLA-B71 from an African American Individual 192

THOMAS R. WELCH and LINDA S. BEISCHEL
Letter to the Editor 195

J. FIELDING HEJTMANCIK and MARILYN S. POLLACK
Response to the Letter 196

Brief Communication
SHIGEKI MITSUNAGA, KAZUE SHINNO, ETSUKO MARUYA, KATSUSHI TOKUNAGA, and HIROH SAJI
Nucleotide Sequence of a Novel DPB1 Allele, DPB1*4701 198

Number 4, August 1993

MIKE BUNCE, CRAIG J. TAYLOR, and KENNETH I. WELSH
Rapid HLA-DQB Typing by Eight Polymerase Chain Reaction Amplifications with Sequence-Specific Primers (PCR–SSP) 201

ERIK H. ROZEMULLER, ANNE G. M. BOUWENS, BERT E. J. E. G. BAST, and MARCEL G. J. TILANUS
Assignment of HLA-DPB Alleles by Computerized Matching Based Upon Sequence Data 207

MARIE CERNA, MICHELA FALCO, HORACIO FRIEDMAN, EDUARDO RAIMONDI, ARMANDO MACCAGNO, MARCELO FERNANDEZ-VIÑA, and PETER STASTNY
Differences in HLA Class II Alleles of Isolated South American Indian Populations from Brazil and Argentina 213

ERIK A. F. MARIJT, WILLY F. J. VEENHOF, ELS GOULMY, PETRA M. C. KLUCK, ANNEKE BRAND, ROEL WILLEMZE, JON J. VAN ROOD, and J. H. FRED FALKENBURG
Multiple Minor Histocompatibility Antigen Disparities Between a Recipient and Four HLA-Identical Potential Sibling Donors for Bone Marrow Transplantation 221

KYUNG WHA LEE
DR6 in Koreans: DR11 Frequently Acts as a Recipient Gene to Create DR13 Alleles 229

LINDA STRUYK, JAMES T. KURNICK, GAIL E. HAWES, JAAP M. VAN LAAR, RONALD SCHIPPER, JORGE R. OKSENBERG, LAWRENCE STEINMAN, RENÉ R. P. DE VRIES, FERDINAND C. BREEDVELD, and PETER VAN DEN ELSEN
T-Cell Receptor V-Gene Usage in Synovial Fluid Lymphocytes of Patients with Chronic Arthritis 237

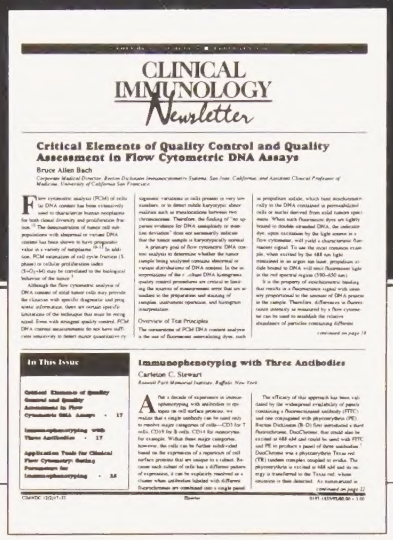
SAMIR Y. SAUMA, MAUREEN C. GAMMON, MARIA A. BEDNAREK, BARRY CUNNINGHAM, WILLIAM E. BIDDISON, JEFFREY D. HERMES, GENE PORTER, SNEHAL TAMHANKAR, JULIO C. HAWKINS, BRUCE L. BUSH, ALAN R. WILLIAMSON, and HANS J. ZWEERINK
Recognition by HLA-A2-Restricted Cytotoxic T Lymphocytes of Endogenously Generated and Exogenously Provided Synthetic Peptide Analogues of the Influenza A Virus Matrix Protein 252

CARLOS VILCHES, ROSARIO DE PABLO, MARÍA J. HERRERO, MARÍA E. MORENO, and MIGUEL KREISLER
Molecular Cloning and Polymerase Chain Reaction–Sequence-Specific Oligonucleotide Detection of the Allele Encoding the Novel Allospecificity HLA-Cw6.2 (Cw*1502) in Spanish Gypsies 259

New Technologies
XIU MING WANG, PAUL I. TERASAKI, GEORGE W. RANKIN, Jr., DAVID CHIA, HUI PING ZHONG, and STEVEN HARDY
A New Microcellular Cytotoxicity Test Based on Calcein AM Release 264

Covering both the technical and the patient side of clinical immunology

CLINICAL IMMUNOLOGY NEWSLETTER



CLINICAL IMMUNOLOGY Newsletter

Critical Elements of Quality Control and Quality Assessment in Flow Cytometric DNA Assays

Bruce Allen Bach

Corporate Medical Director, Becton Dickinson Immunocytometry Systems, San Jose, California, and Assistant Clinical Professor of Medicine, University of California San Francisco

In This Issue

Immunophenotyping with Three Antibodies

Carleton C. Stewart

Roswell Park Memorial Institute, Buffalo, New York

1993 Subscription Information
ISSN 0197-1859 Volume 13 (12 issues)
Subscription Rate: $156.00
Subscribers outside the U.S., please add $46.00 for postage and handling.

Recently published articles:

Epidemiology and Natural History of Pediatric HIV Infection,
Joel Mendelson and James M. Oleske

Perinatal HIV Infection: Diagnostic Issues,
Paul Palumbo

Clinical Applications of the Polymerase Chain Reaction, *Thomas J. White*

Designing a PCR/Probe Detection System for Pathogenic Fungi, *Barbara H. Bowman*

Perspective on Autoimmunity,
David E. Normansell

Multiparameter ELISA Testing for Autoantibodies in Rheumatology,
Marius Teodorescu

Editors:
Henry A. Homburger, MD, Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, Minnesota
Alan L. Landay, PhD, Rush Presbyterian-St. Luke's Medical Center, Chicago, Illinois

Where the world's best research becomes solutions for your daily work

For clinical immunologists, here's today's only monthly source of clinically-focused working information from across the field of immunology. Each issue is devoted to a major topic in the field, and transforms research from the world's foremost clinics and laboratories into ideas and methods you'll apply to your daily work.

Professional reading for those who are more than professional *readers . . .*

Coverage here avoids the theoretic and esoteric, in favor of a staunch clinical emphasis. Issues alternate between a "patient" and "technical" focus.

In technical issues you'll explore such topics as:
- analytical methods for antigens and antibodies
- quality control and quality assurance
- personnel standards and qualifications
- new products and assays
- regulatory, legislative, and economic issues affecting the clinical immunology laboratory

Issues devoted to direct patient care offer insight into:
- immunodeficiency
- transplantation
- autoimmune disease
- allergic disease
- cancer immunology
- infectious disease

As a subscriber, you'll enjoy point/counterpoint explorations of controversial subjects, illuminating case reports, evaluations and comparisons of the latest tools and techniques, original articles, reviews and references you'll use to further your research.

Keep your lab's diagnostic work at the forefront of clinical immunology. Enter your subscription today!

To request a sample copy or for ordering information contact:

In North America
Elsevier Science Publishing Co., Inc.
P.O. Box 882, Madison Square Station
New York, New York 10159

Outside North America
Elsevier Science Publishers
P.O. Box 211/1000 AE Amsterdam
The Netherlands

ELSEVIER
SCIENCE PUBLISHING COMPANY, INC.

For faster service: Phone (212) 633-3950
or Fax (212) 633-3990

11/92 XIKY